

Chapter 5

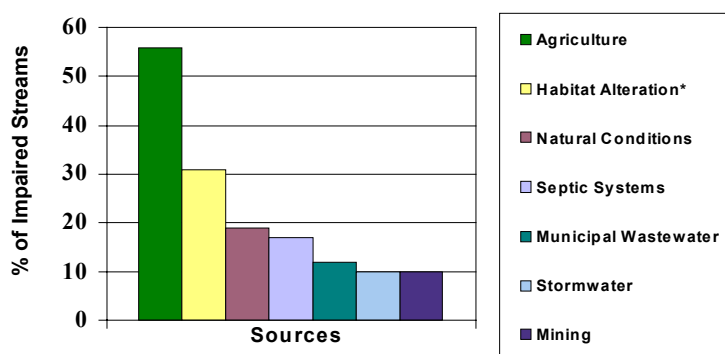
Analysis of Current Management Measures

This chapter describes the management measures to control nonpoint source pollution from the six major source categories identified by the National Oceanic and Atmospheric Administration (NOAA), with guidance developed by EPA, in consultation with other Federal agencies. NOAA's and EPA's findings on Washington's programs to control pollutants from these categories are also described. The end of each section lists a set of additional recommendations that will be implemented within five, ten, or 15-year timeframes.

Primary Contributors to Nonpoint Source Pollution

Section 305(b) of the CWA requires states to identify "sources" of pollution in addition to "causes." Water quality data is correlated back to primary land use activities by Ecology staff. The results of this analysis statewide are shown below for streams, lakes and estuaries.

Figure 5.1
Possible Sources of Pollution
Impaired Streams



* Habitat Alteration = changes to streambank, channel, and stream flow

1998 305b Report

Figure 5.2

Possible Sources of Pollution

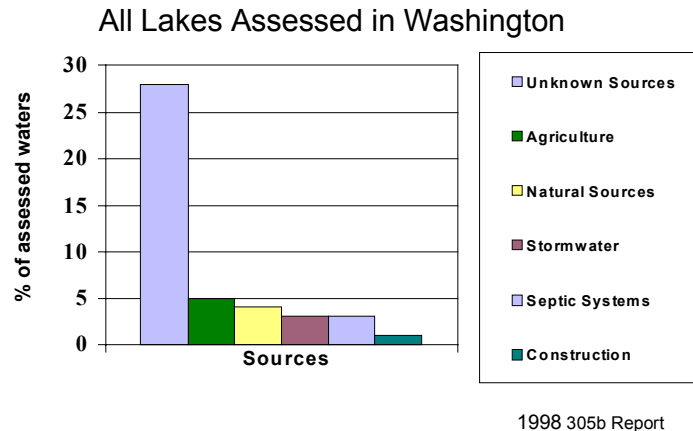
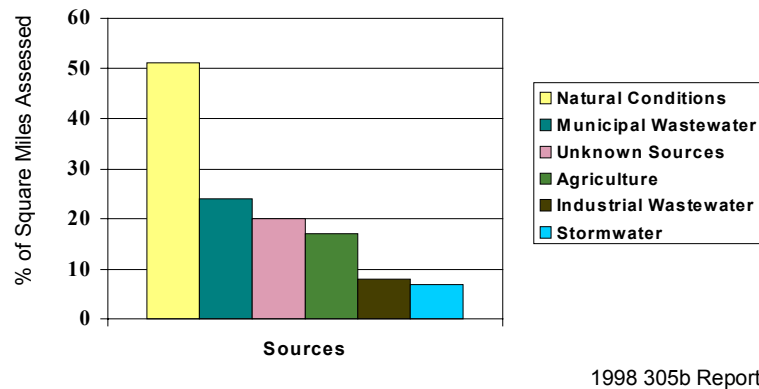


Figure 5.3

Possible Sources of Pollution

All Estuaries Assessed in Washington



MAJOR CATEGORIES OF MANAGEMENT MEASURES

The six source categories used in this analysis are:

Category	Page Number
Agriculture	70
Forestry	112
Urban	148
Recreation (especially marinas and boats)	204
Hydromodification	234
Loss of Aquatic Ecosystems	257

Within each category the management measures required by CZARA are identified, and a complete text of the findings for each management measure provided by EPA and NOAA are described. The findings resulted from a review of Washington's Nonpoint Strategy: CZARA 6217, September 1995/Revised June, 1996. The combination of the management measures and the findings forms the basis for many of the recommendations in the strategy. Additional management measures have been added where the needs have been identified. A section on Education and Building Stewardship is found on page 273.

HOW MANAGEMENT MEASURES WILL BE USED

The State used the management measure to analyze it's nonpoint program required under section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990 (CZARA). They were used as a tool to determine gaps, deficiencies, and additional needs. The state will continue to use existing programs and through the management measure analysis process, will analyze whether additional needs are necessary, or the state has sufficient programs to meet the requirements of the management measures. NOAA and EPA will determine whether the state's analysis meets federal requirements. **The management measures will be incorporated into existing and future water quality programs. They will not be implemented as a program in and of themselves.**

A previous analysis was done in the early 1990's, resulting in the submission of a nonpoint plan for Washington's coastal zone in 1995, and again in 1996. The 1996 submission received a conditional approval from the federal agencies on June 30, 1998. The information in this analysis uses the previous plan, the findings of the federal agencies, and newer information gathered during 1998-99, in consultation with other State, tribal and federal agencies.

GUIDE TO ANALYSIS OF PROGRAMS BY MANAGEMENT MEASURE

The analysis of each Management Measure follows this standard format:

Management Measure: The title and number of the management measure as found in the guidance from EPA and NOAA issued in 1992 as required in CZARA 6217(g). In the Federal Register, this document is referred to as the (g) guidance.

Description from Federal Guidance: This is also taken directly from the (g) guidance, and provides the specific details of each management measure.

1998 Finding from EPA and NOAA: Feedback from EPA and NOAA after their initial review of Washington's nonpoint source programs relative to the requirements of CZARA 6217 and the (g) guidance. The text, *shown in italics and quotes*, has been excerpted from the letter of conditional approval from EPA and NOAA dated June 30, 1998.

Existing Laws and Regulations: A list of current State laws relevant to the implementation of the management measure. Regulations that have been adopted from these laws are listed with the law of origin.

Description of Current Programs in Washington: A summary of how the laws and regulations work to implement the management measure. The description may include specific citations from the Revised Code of Washington and/or the Washington Administrative Code. This section also describes non-regulatory programs important to the success of the State's nonpoint effort.

Additional needs to meet this management measure: A summary of comments from the public, State agencies, and the federal agencies, as well as Ecology's own analysis of conditions where the current State program is unsuccessful at fully implementing the management measure and/or protecting water quality in the State.

Actions to satisfy this management measure: A list of actions to satisfy the components of the management measure. These actions are also listed in the table in Chapter 9.

Additional actions to improve water quality: A list of actions identified by the state important to improving water quality, but not needed to satisfy the implementation of the management measure. These actions are also listed in the table in Chapter 9.